



Nexans Ref.: 35015998

Country Ref.: 0623005

Lifemark™

The cable may be used for permanent installation in air, ground and water.

STANDARDS

Product HD 603 S1/5D

National SFS 5800

DESCRIPTION

AXMK-PE is a halogen free, XLPE-insulated, PE-sheathed cable with sector shaped (from 35 mm² and above), stranded, aluminium conductors. The conductors are annealed. To simplify the removal of the sheath a tear thread has been added under the sheath. The cable is designed according to HD 603. The conductors have resistance and number of wires according to IEC 60228 class 2, and the insulation is UV-protected. The cores are identified by colours according to HD 308. The sheath is marked type/manufacturer/year+month/metre marking. AXMK-PE is not flame retardant. The cable is certified by SGS Fimko.

Lifemark™ recycling marking

The external surface of the outer sheath is embossed with a text which specifies all components in the polymers and prepares the cable for future recycling.

Standards

AXMK-PE is manufactured and tested according to SFS 4879. The cable can be loaded in accordance with valid power current regulations.

Certification

Approved by SGS Fimko.

Quality and environmental management system

Certified according to ISO 9001, ISO/TS 16949 and ISO 14001.



Halogen free
Yes



Conductor flexibility
Stranded



Rated Voltage U₀/U
(Um)
0,6/1 kV



Minimum
installation
temperature
-20 °C



Maximum operating
temperature
90 °C



U.V resistance
Yes



Static bending rad.
382 mm



Bending factor
installed
8 (xD)

CHARACTERISTICS

Construction characteristics

Conductor material	Aluminum
Insulation	XLPE (chemical)
Outer sheath	PE
Colour	Black
Halogen free	Yes
Conductor flexibility	Stranded
Conductor shape	Sector-shaped stranded (SM)
With Green/Yellow core	Yes
With smaller neutral conductor	No

Dimensional characteristics

Number of cores	4
Conductor cross-section	185 mm ²
Average insulation thickness	1.6 mm
Average sheath thickness	2.6 mm
Nominal outer diameter	47.7 mm
Approximate weight	274.0 kg/100m
Neutral conductor section (when smaller)	- mm ²

Electrical characteristics

Conductor electrical resistance	0.164 Ohm/km
Nominal inductance at installation	0.23 mH/km
Nominal phase capacitance	0.1 µF / km
Rated Voltage U ₀ /U (U _m)	0,6/1 kV

Usage characteristics

Minimum installation temperature	-20 °C
Maximum operating temperature	90 °C
Short-circuit max. conductor temperature	250 °C
Length	500 m
Packaging	K20
U.V resistance	Yes
Minimum static operating bending radius	382 mm
Bending factor when installed	8 (xD)
Bending factor when laying	12 (xD)
Installation type	Outdoor - Direct burial

SELLING AND DELIVERY INFORMATION

AXMK-PE will be delivered in lengths of 500 m. The drum is marked with manufacturer, type of cable and length. The ends of the cable are sealed.